




## Robert Tibshirani

Professor of Biomedical Data Science and of Statistics

 Curriculum Vitae available Online

### Bio

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#### BIO

Robert Tibshirani's main interests are in applied statistics, biostatistics, and data mining. He is co-author of the books "Generalized Additive Models" (with Trevor Hastie, Stanford), "An Introduction to the Bootstrap" (with Brad Efron, Stanford), and "Elements of Statistical Learning" (with Trevor Hastie and Jerry Friedman, Stanford). His current research focuses on problems in biology and genomics, medicine, and industry. With Stanford collaborator Balasubramanian Narasimhan, he also develops software packages for genomics and proteomics.

#### ACADEMIC APPOINTMENTS

- Professor, Biomedical Data Science
- Professor, Statistics
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

#### ADMINISTRATIVE APPOINTMENTS

- Professor, Department of Biomedical Data Science and Department of Statistics, Stanford University, (2015- present)
- Professor, Department of Health Research and Policy and Department of Statistics, Stanford University, (1998-2015)
- Professor, Department of Public Health Sciences and Department of Statistics, University of Toronto, (1994-1998)
- Associate Professor, Department of Statistics, University of Toronto, (1989-1994)
- Associate Professor, Department of Preventive Medicine and Biostatistics, University of Toronto, (1989-1994)
- Assistant Professor, Department of Statistics, University of Toronto, (1985-1989)
- Assistant Professor, Department of Preventive Medicine and Biostatistics, University of Toronto, (1985-1989)

#### HONORS AND AWARDS

- Doctor Honoris Causa, University of Waterloo (2018)
- Elected Member, National Academy of Sciences (2012)
- Gold Medal, Statistical Society of Canada (2012)
- Alumni Achievement Award, University of Waterloo (2006)
- Fellow, Royal Society of Canada (2001)
- CRM-SSC Prize in Statistics, Statistical Society of Canada (2000)
- E.W. Steacie Memorial Fellowship, Natural Sciences and Engineering Research Council of Canada (1997)

- President's Award, Committee of Presidents of Statistical Societies (1996)
- Guggenheim Fellowship, J. Guggenheim Foundation (1994)
- Fellow, Institute of Mathematical Statistics (1993)
- Fellow, American Statistical Association (1992)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Associate Editor, Annals of Applied Statistics (2006 - present)
- Associate Editor, PLoS Biology (2001 - 2004)
- Member, Screening Panel, National Science Foundation (1999 - 1999)
- Associate Editor, Annals of Statistics (1998 - present)
- Associate Editor, Statistical Science (1995 - present)
- Chair, Committee on Computerization, Institute of Mathematical Statistics (1995 - present)
- Associate Editor, Canadian Journal of Statistics (1995 - 1997)
- Program Chair, Statistical Computing, American Statistical Association (1995 - 1996)
- Annual Meeting Program Chair, Statistical Society of Canada (1994 - 1994)
- Series Editor, Computing and Graphics Monographs, Chapman & Hall (1994 - 1994)
- Council Member, Institute of Mathematical Statistics (1991 - 1994)
- Member, Statistical Sciences Grant Selection Committee, Natural Sciences and Engineering Research Council of Canada (1989 - 1993)
- Associate Editor, Canadian Journal of Statistics (1988 - 1991)
- Associate Editor, Theory and Methods, Journal of the American Statistical Association (1986 - 1995)

## **PROFESSIONAL EDUCATION**

- B.Math., University of Waterloo , Statistics and Computer Science (1979)
- M.Sc., University of Toronto , Statistics (1980)
- Ph.D., Stanford University , Statistics (1984)

## **LINKS**

- Personal Web Site: <https://statistics.stanford.edu/~tibs/>
- Statistics Department Profile: <https://statistics.stanford.edu/people/robert-tibshirani>

## **Research & Scholarship**

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### **CURRENT RESEARCH AND SCHOLARLY INTERESTS**

My research is in applied statistics and biostatistics. I specialize in computer-intensive methods for regression and classification, bootstrap, cross-validation and statistical inference, and signal and image analysis for medical diagnosis.

## **Teaching**

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### **COURSES**

#### **2019-20**

- Data Science 101: STATS 101 (Aut)

#### **2017-18**

- Introduction to Statistical Learning: STATS 216 (Win)

- Modern Applied Statistics: Learning: STATS 315A (Win)

#### 2016-17

- Data Science 101: STATS 101 (Aut)
- Introduction to Statistical Learning: STATS 216 (Win)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Stephen Bates, Amalia Hadjitheodorou, Nikolaos Ignatiadis, Jelena Markovic, Junyang Qian, Zhimei Ren

#### Doctoral Dissertation Advisor (AC)

Ismael Lemhadri, Ruilin Li, Matteo Sesia, Jingyi Tay

#### Master's Program Advisor

Karen Ouyang, Alexander Ruch, Carlos Jose Suarez

#### Doctoral (Program)

Gautam Machiraju

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Phd Program)
- Immunology (Phd Program)

## Publications

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### PUBLICATIONS

- **Increased T Cell Differentiation and Cytolytic Function in Bangladeshi Compared to American Children** *FRONTIERS IN IMMUNOLOGY*  
Wager, L. E., Bolen, C. R., Sigel, N., Angel, C., Guan, L., Kirkpatrick, B. D., Haque, R., Tibshirani, R. J., Parsonnet, J., Petri, W. A., Davis, M. M.  
2019; 10
- **A Pliable Lasso** *JOURNAL OF COMPUTATIONAL AND GRAPHICAL STATISTICS*  
Tibshirani, R., Friedman, J.  
2019
- **Early detection of unilateral ureteral obstruction by desorption electrospray ionization mass spectrometry.** *Scientific reports*  
Banerjee, S., Wong, A. C., Yan, X., Wu, B., Zhao, H., Tibshirani, R. J., Zare, R. N., Brooks, J. D.  
2019; 9 (1): 11007
- **Dynamic Risk Profiling Using Serial Tumor Biomarkers for Personalized Outcome Prediction.** *Cell*  
Kurtz, D. M., Esfahani, M. S., Scherer, F., Soo, J., Jin, M. C., Liu, C. L., Newman, A. M., Duhrsen, U., Huttmann, A., Casasnovas, O., Westin, J. R., Ritgen, M., Bottcher, et al  
2019
- **Main Effects and Interactions in Mixed and Incomplete Data Frames** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*  
Robin, G., Klopp, O., Josse, J., Moulines, E., Tibshirani, R.  
2019
- **Log-ratio lasso: Scalable, sparse estimation for log-ratio models** *BIOMETRICS*  
Bates, S., Tibshirani, R.  
2019; 75 (2): 613–24
- **Shaping of infant B cell receptor repertoires by environmental factors and infectious disease.** *Science translational medicine*  
Nielsen, S. C., Roskin, K. M., Jackson, K. J., Joshi, S. A., Nejad, P., Lee, J., Wagar, L. E., Pham, T. D., Hoh, R. A., Nguyen, K. D., Tsunemoto, H. Y., Patel, S. B., Tibshirani, et al

2019; 11 (481)

- **Reply to J. Wang et al.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*  
Kurtz, D. M., Scherer, F., Jin, M. C., Soo, J., Craig, A. F., Esfahani, M. S., Chabon, J. J., Stehr, H., Liu, C. L., Tibshirani, R., Maeda, L. S., Gupta, N. K., Khodadoust, et al  
2019: JCO1801907
- **Proliferation tracing with single-cell mass cytometry optimizes generation of stem cell memory-like T cells.** *Nature biotechnology*  
Good, Z., Borges, L., Vivanco Gonzalez, N., Sahaf, B., Samusik, N., Tibshirani, R., Nolan, G. P., Bendall, S. C.  
2019
- **Desensitization rates to peanut protein during OIT among children, adolescents, and adults**  
Long, A. J., Purington, N., Woch, M., O'Laughlin, K., Tan, T., Kost, L., Hijazi, S., Shojinaga, M., Raeber, O., Alvarez, A., Andorf, S., Tibshirani, R., Galli, et al  
MOSBY-ELSEVIER.2019: AB245
- **Increased T Cell Differentiation and Cytolytic Function in Bangladeshi Compared to American Children.** *Frontiers in immunology*  
Wagar, L. E., Bolen, C. R., Sigal, N., Lopez Angel, C. J., Guan, L., Kirkpatrick, B. D., Haque, R., Tibshirani, R. J., Parsonnet, J., Petri, W. A., Davis, M. M.  
2019; 10: 2239
- **Sustained outcomes in oral immunotherapy for peanut allergy (POISED study): a large, randomised, double-blind, placebo-controlled, phase 2 study.** *Lancet (London, England)*  
Chinthrajah, R. S., Purington, N., Andorf, S., Long, A., O'Laughlin, K. L., Lyu, S. C., Manohar, M., Boyd, S. D., Tibshirani, R., Maecker, H., Plaut, M., Mukai, K., Tsai, et al  
2019
- **Preoperative metabolic classification of thyroid nodules using mass spectrometry imaging of fine-needle aspiration biopsies.** *Proceedings of the National Academy of Sciences of the United States of America*  
DeHoog, R. J., Zhang, J., Alore, E., Lin, J. Q., Yu, W., Woody, S., Almendariz, C., Lin, M., Engelsman, A. F., Sidhu, S. B., Tibshirani, R., Suliburk, J., Eberlin, et al  
2019
- **Genomic analysis of benign prostatic hyperplasia implicates cellular re-landscaping in disease pathogenesis.** *JCI insight*  
Middleton, L. W., Shen, Z., Varma, S., Pollack, A. S., Gong, X., Zhu, S., Zhu, C., Foley, J. W., Vennam, S., Sweeney, R. T., Tu, K., Biscocho, J., Eminaga, et al  
2019; 5
- **Multomics modeling of the immunome, transcriptome, microbiome, proteome and metabolome adaptations during human pregnancy.** *Bioinformatics (Oxford, England)*  
Ghaemi, M. S., DiGiulio, D. B., Contrepois, K., Callahan, B., Ngo, T. T., Lee-McMullen, B., Lehallier, B., Robaczewska, A., Mcilwain, D., Rosenberg-Hasson, Y., Wong, R. J., Quaintance, C., Culos, et al  
2019; 35 (1): 95–103
- **Nuclear penalized multinomial regression with an application to predicting at bat outcomes in baseball** *STATISTICAL MODELLING*  
Powers, S., Hastie, T., Tibshirani, R.  
2018; 18 (5-6): 388–410
- **Found In Translation: a machine learning model for mouse-to-human inference.** *Nature methods*  
Normand, R., Du, W., Briller, M., Gaujoux, R., Starosvetsky, E., Ziv-Kenet, A., Shalev-Malul, G., Tibshirani, R. J., Shen-Orr, S. S.  
2018
- **Analyzing Excess Risk from Matched Designs with Double Controls: Author response.** *Journal of clinical epidemiology*  
Redelmeier, D., Tibshirani, R. J.  
2018
- **Log-ratio Lasso: Scalable, Sparse Estimation for Log-ratio Models.** *Biometrics*  
Bates, S., Tibshirani, R.  
2018
- **Multicenter Study Using Desorption-Electrospray-Ionization-Mass-Spectrometry Imaging for Breast-Cancer Diagnosis** *ANALYTICAL CHEMISTRY*  
Porcari, A. M., Zhang, J., Garza, K. Y., Rodrigues-Peres, R. M., Lin, J. Q., Young, J. H., Tibshirani, R., Nagi, C., Paiva, G. R., Carter, S. A., Sarian, L., Eberlin, M. N., Eberlin, et al  
2018; 90 (19): 11324–32

- **Circulating Tumor DNA Measurements As Early Outcome Predictors in Diffuse Large B-Cell Lymphoma.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*  
Kurtz, D. M., Scherer, F., Jin, M. C., Soo, J., Craig, A. F., Esfahani, M. S., Chabon, J. J., Stehr, H., Liu, C. L., Tibshirani, R., Maeda, L. S., Gupta, N. K., Khodadoust, et al  
2018; JCO2018785246
- **Development of plasma cell-free DNA (cfDNA) assays for early cancer detection: first insights from the Circulating Cell-Free Genome Atlas Study (CCGA)**  
Aravanis, A. A., Oxnard, G. R., Maddala, T., Hubbell, E., Venn, O., Jamshidi, A., Shen, L., Amini, H., Beausang, J. A., Betts, C., Civello, D., Davydov, K., Fazullina, et al  
AMER ASSOC CANCER RESEARCH.2018
- **SUPERVISED LEARNING VIA THE "HUBNET" PROCEDURE** *STATISTICA SINICA*  
Guan, L., Fan, Z., Tibshirani, R.  
2018; 28 (3): 1225–43
- **Pharmacogenetics and progression to neovascular age-related macular degeneration-Evidence supporting practice change** *REPLY PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Vavvas, D. G., Small, K. W., Awh, C., Zanke, B. W., Tibshirani, R. J., Kustra, R.  
2018; 115 (25): E5640–E5641
- **Noninvasive blood tests for fetal development predict gestational age and preterm delivery** *SCIENCE*  
Ngo, T. M., Moufarrej, M. N., Rasmussen, M. H., Camunas-Soler, J., Pan, W., Okamoto, J., Neff, N. F., Liu, K., Wong, R. J., Downes, K., Tibshirani, R., Shaw, G. M., Skotte, et al  
2018; 360 (6393): 1133–36
- **Methods for analyzing matched designs with double controls: excess risk is easily estimated and misinterpreted when evaluating traffic deaths** *JOURNAL OF CLINICAL EPIDEMIOLOGY*  
Redelmeier, D. A., Tibshirani, R. J.  
2018; 98: 117–22
- **Some methods for heterogeneous treatment effect estimation in high dimensions** *STATISTICS IN MEDICINE*  
Powers, S., Qian, J., Jung, K., Schuler, A., Shah, N. H., Hastie, T., Tibshirani, R.  
2018; 37 (11): 1767–87
- **Single-cell developmental classification of B cell precursor acute lymphoblastic leukemia at diagnosis reveals predictors of relapse.** *Nature medicine*  
Good, Z., Sarno, J., Jager, A., Samusik, N., Aghaeepour, N., Simonds, E. F., White, L., Lacayo, N. J., Fantl, W. J., Fazio, G., Gaipa, G., Biondi, A., Tibshirani, et al  
2018; 24 (4): 474–83
- **Post-selection inference for 1-penalized likelihood models** *CANADIAN JOURNAL OF STATISTICS-REVUE CANADIENNE DE STATISTIQUE*  
Taylor, J., Tibshirani, R.  
2018; 46 (1): 41–61
- **CFH and ARMS2 genetic risk determines progression to neovascular age-related macular degeneration after antioxidant and zinc supplementation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Vavvas, D. G., Small, K. W., Awh, C. C., Zanke, B. W., Tibshirani, R. J., Kustra, R.  
2018; 115 (4): E696–E704
- **Genomic feature selection by coverage design optimization** *Journal of Applied Statistics*  
Reid, S., Newman, A. M., Diehn, M., Alizadeh, A. A., Tibshirani, R.  
2018
- **Post-Selection Inference for #1-Penalized Likelihood Models.** *The Canadian journal of statistics = Revue canadienne de statistique*  
Taylor, J., Tibshirani, R.  
2018; 46 (1): 41–61
- **Genomic Feature Selection by Coverage Design Optimization.** *Journal of applied statistics*  
Reid, S., Newman, A. M., Diehn, M., Alizadeh, A. A., Tibshirani, R.  
2018; 45 (14): 2658–76

- **Distinguishing malignant from benign microscopic skin lesions using desorption electrospray ionization mass spectrometry imaging.** *Proceedings of the National Academy of Sciences of the United States of America*  
Margulis, K., Chiou, A. S., Aasi, S. Z., Tibshirani, R. J., Tang, J. Y., Zare, R. N.  
2018
- **Food allergy and omics.** *The Journal of allergy and clinical immunology*  
Dhondalay, G. K., Rael, E., Acharya, S., Zhang, W., Sampath, V., Galli, S. J., Tibshirani, R., Boyd, S. D., Maecker, H., Nadeau, K. C., Andorf, S.  
2018; 141 (1): 20–29
- **DRUG-NEM: Optimizing drug combinations using single-cell perturbation response to account for intratumoral heterogeneity.** *Proceedings of the National Academy of Sciences of the United States of America*  
Anchang, B., Davis, K. L., Fienberg, H. G., Williamson, B. D., Bendall, S. C., Karacosta, L. G., Tibshirani, R., Nolan, G. P., Plevritis, S. K.  
2018; 115 (18): E4294–E4303
- **A General Framework for Estimation and Inference From Clusters of Features** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*  
Reid, S., Taylor, J., Tibshirani, R.  
2018; 113 (521): 280–93
- **SELECTING THE NUMBER OF PRINCIPAL COMPONENTS: ESTIMATION OF THE TRUE RANK OF A NOISY MATRIX** *ANNALS OF STATISTICS*  
Choi, Y., Taylor, J., Tibshirani, R.  
2017; 45 (6): 2590–2617
- **KLHL6 Is Preferentially Expressed in Germinal Center-Derived B-Cell Lymphomas** *AMERICAN JOURNAL OF CLINICAL PATHOLOGY*  
Kunder, C. A., Roncador, G., Advani, R. H., Gualco, G., Bacchi, C. E., Sabile, J. M., Lossos, I. S., Nie, K., Tibshirani, R., Green, M. R., Alizadeh, A. A., Natkunam, Y.  
2017; 148 (6): 465–76
- **Big data modeling to predict platelet usage and minimize wastage in a tertiary care system** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Guan, L., Tian, X., Gombur, S., Zemek, A. J., Krishnan, G., Scott, R., Narasimhan, B., Tibshirani, R. J., Pham, T. D.  
2017; 114 (43): 11368–73
- **Post-selection point and interval estimation of signal sizes in Gaussian samples** *CANADIAN JOURNAL OF STATISTICS-REVUE CANADIENNE DE STATISTIQUE*  
Reid, S., Taylor, J., Tibshirani, R.  
2017; 45 (2): 128–148
- **Metabolic Markers and Statistical Prediction of Serous Ovarian Cancer Aggressiveness by Ambient Ionization Mass Spectrometry Imaging.** *Cancer research*  
Sans, M., Gharpure, K., Tibshirani, R., Zhang, J., Liang, L., Liu, J., Young, J. H., Dood, R. L., Sood, A. K., Eberlin, L. S.  
2017; 77 (11): 2903–2913
- **Chemical Space Mimicry for Drug Discovery** *JOURNAL OF CHEMICAL INFORMATION AND MODELING*  
Yuan, W., Jiang, D., Nambiar, D. K., Liew, L. P., Hay, M. P., Bloomstein, J., Lu, P., Turner, B., Le, Q., Tibshirani, R., Khatri, P., Moloney, M. G., Koong, et al  
2017; 57 (4): 875–882
- **Diagnosis of prostate cancer by desorption electrospray ionization mass spectrometric imaging of small metabolites and lipids** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Banerjee, S., Zare, R. N., Tibshirani, R. J., Kunder, C. A., Nolley, R., Fan, R., Brooks, J. D., Sonn, G. A.  
2017; 114 (13): 3334–3339
- **Landscape of monoallelic DNA accessibility in mouse embryonic stem cells and neural progenitor cells.** *Nature genetics*  
Xu, J., Carter, A. C., Gendrel, A., Attia, M., Loftus, J., Greenleaf, W. J., Tibshirani, R., Heard, E., Chang, H. Y.  
2017; 49 (3): 377–386
- **Long-term course of patients with primary ocular adnexal MALT lymphoma: a large single-institution cohort study** *BLOOD*  
Desai, A., Joag, M. G., Lekakis, L., Chapman, J. R., Vega, F., Tibshirani, R., Tse, D., Markoe, A., Lossos, I. S.  
2017; 129 (3): 324–332
- **A simple method for analyzing matched designs with double controls: McNemar's test can be extended.** *Journal of clinical epidemiology*

- Redelmeier, D. A., Tibshirani, R. J.  
2017; 81: 51–55.e2
- **An immune clock of human pregnancy.** *Science immunology*  
Aghaepour, N., Ganio, E. A., Mcilwain, D., Tsai, A. S., Tingle, M., Van Gassen, S., Gaudilliere, D. K., Baca, Q., McNeil, L., Okada, R., Ghaemi, M. S., Furman, D., Wong, et al  
2017; 2 (15)
  - **An Ordered Lasso and Sparse Time-Lagged Regression** *TECHNOMETRICS*  
Tibshirani, R., Suo, X.  
2016; 58 (4): 415-423
  - **Long term course of patients with primary ocular adnexal malt lymphoma: a large single institution cohort study.** *Blood*  
Desai, A., Joag, M. G., Lekakis, L., Chapman, J. R., Vega, F., Tibshirani, R., Tse, D., Markoe, A., Lossos, I. S.  
2016
  - **High-dimensional regression adjustments in randomized experiments.** *Proceedings of the National Academy of Sciences of the United States of America*  
Wager, S., Du, W., Taylor, J., Tibshirani, R. J.  
2016
  - **Cardiolipins Are Biomarkers of Mitochondria-Rich Thyroid Oncocytic Tumors.** *Cancer research*  
Zhang, J., Yu, W., Ryu, S. W., Lin, J., Buentello, G., Tibshirani, R., Suliburk, J., Eberlin, L. S.  
2016: -?
  - **Data Shared Lasso: A novel tool to discover uplift** *COMPUTATIONAL STATISTICS & DATA ANALYSIS*  
Gross, S. M., Tibshirani, R.  
2016; 101: 226-235
  - **Pancreatic Cancer Surgical Resection Margins: Molecular Assessment by Mass Spectrometry Imaging.** *PLoS medicine*  
Eberlin, L. S., Margulis, K., Planell-Mendez, I., Zare, R. N., Tibshirani, R., Longacre, T. A., Jalali, M., Norton, J. A., Poultides, G. A.  
2016; 13 (8)
  - **Pathophysiological significance and therapeutic targeting of germinal center kinase in diffuse large B-cell lymphoma.** *Blood*  
Matthews, J. M., Bhatt, S., Patricelli, M. P., Nomanbhoy, T. K., Jiang, X., Natkunam, Y., Gentles, A. J., Martinez, E., Zhu, D., Chapman, J. R., Cortizas, E., Shyam, R., Chinichian, et al  
2016; 128 (2): 239-248
  - **Exact Post-Selection Inference for Sequential Regression Procedures** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*  
Tibshirani, R. J., Taylor, J., Lockhart, R., Tibshirani, R.  
2016; 111 (514): 600-614
  - **INFERENCE IN ADAPTIVE REGRESSION VIA THE KAC-RICE FORMULA** *ANNALS OF STATISTICS*  
Taylor, J. E., Loftus, J. R., Tibshirani, R. J.  
2016; 44 (2): 743-770
  - **Sparse regression and marginal testing using cluster prototypes.** *Biostatistics*  
Reid, S., Tibshirani, R.  
2016; 17 (2): 364-376
  - **Successful immunotherapy induces previously unidentified allergen-specific CD4+ T-cell subsets.** *Proceedings of the National Academy of Sciences of the United States of America*  
Ryan, J. F., Hovde, R., Glanville, J., Lyu, S., Ji, X., Gupta, S., Tibshirani, R. J., Jay, D. C., Boyd, S. D., Chinthrajah, R. S., Davis, M. M., Galli, S. J., Maecker, et al  
2016; 113 (9): E1286-95
  - **Sequential selection procedures and false discovery rate control** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES B-STATISTICAL METHODOLOGY*  
G'Sell, M. G., Wager, S., Chouldechova, A., Tibshirani, R.  
2016; 78 (2): 423-444
  - **Data Shared Lasso: A Novel Tool to Discover Uplift.** *Computational statistics & data analysis*  
Gross, S. M., Tibshirani, R.

2016; 101: 226–35

- **A STUDY OF ERROR VARIANCE ESTIMATION IN LASSO REGRESSION** *STATISTICA SINICA*  
Reid, S., Tibshirani, R., Friedman, J.  
2016; 26 (1): 35–67
- **CUSTOMIZED TRAINING WITH AN APPLICATION TO MASS SPECTROMETRIC IMAGING OF CANCER TISSUE** *ANNALS OF APPLIED STATISTICS*  
Powers, S., Hastie, T., Tibshirani, R.  
2015; 9 (4): 1709–1725
- **A Permutation Approach to Testing Interactions for Binary Response by Comparing Correlations Between Classes** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*  
Simon, N., Tibshirani, R.  
2015; 110 (512): 1707–1716
- **A component lasso** *CANADIAN JOURNAL OF STATISTICS-REVUE CANADIENNE DE STATISTIQUE*  
Hussami, N., Tibshirani, R. J.  
2015; 43 (4): 624–646
- **The Radiogenomic Risk Score: Construction of a Prognostic Quantitative, Noninvasive Image-based Molecular Assay for Renal Cell Carcinoma** *RADIOLOGY*  
Jamshidi, N., Jonasch, E., Zapala, M., Korn, R. L., Aganovic, L., Zhao, H., Sitaram, R. T., Tibshirani, R. J., Banerjee, S., Brooks, J. D., Ljungberg, B., Kuo, M. D.  
2015; 277 (1): 114–123
- **Statistical learning and selective inference** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Taylor, J., Tibshirani, R. J.  
2015; 112 (25): 7629–7634
- **Collaborative regression** *BIOSTATISTICS*  
Gross, S. M., Tibshirani, R.  
2015; 16 (2): 326–338
- **CONVEX HIERARCHICAL TESTING OF INTERACTIONS** *ANNALS OF APPLIED STATISTICS*  
Bien, J., Simon, N., Tibshirani, R.  
2015; 9 (1): 27–42
- **Molecular subtyping for clinically defined breast cancer subgroups** *BREAST CANCER RESEARCH*  
Zhao, X., Rodland, E. A., Tibshirani, R., Plevritis, S.  
2015; 17
- **Pancancer analysis of DNA methylation-driven genes using MethylMix** *GENOME BIOLOGY*  
Gevaert, O., Tibshirani, R., Plevritis, S. K.  
2015; 16
- **Fibromyalgia and the Risk of a Subsequent Motor Vehicle Crash.** *The Journal of rheumatology*  
Redelmeier, D. A., Zung, J. D., Thiruchelvam, D., Tibshirani, R. J.  
2015; 42 (8): 1502–10
- **CUSTOMIZED TRAINING WITH AN APPLICATION TO MASS SPECTROMETRIC IMAGING OF CANCER TISSUE.** *The annals of applied statistics*  
Powers, S., Hastie, T., Tibshirani, R.  
2015; 9 (4): 1709–25
- **The Radiogenomic Risk Score: Construction of a Prognostic Quantitative, Noninvasive Image-based Molecular Assay for Renal Cell Carcinoma.** *Radiology*  
Jamshidi, N., Jonasch, E., Zapala, M., Korn, R. L., Aganovic, L., Zhao, H., Tumkur Sitaram, R., Tibshirani, R. J., Banerjee, S., Brooks, J. D., Ljungberg, B., Kuo, M. D.  
2015; 277 (1): 114–23
- **Pancancer analysis of DNA methylation-driven genes using MethylMix.** *Genome biology*



- Gevaert, O., Tibshirani, R., Plevritis, S. K.  
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